

VAAL BARRAGE

COORDINATES (degrees, minutes, seconds)

| LATITUDE | LONGITUDE |
|-------------|-------------|
| 26°46'54" S | 27°41'05" E |

LOCATION

The Vaal Barrage is located in quaternary catchment C22K, near Vanderbijlpark in Gauteng Province, South Africa.

DESCRIPTION

The Vaal Barrage is a gravity barrage. It has a full supply level of 1 421.1 m, with a dead storage level of 1 413.5 m and the bottom of reservoir is at 1 410.5 m.

PURPOSE

This reservoir was once used to supply water to the Witwatersrand but no longer does so, because the quality of its water is deteriorating due to pollution. It is now used for recreational activities, such as boating, skiing, fishing and swimming. Many holiday resorts have been established on its banks.

PHYSICAL INFORMATION

| Dam name | River | Quaternary catchment | FSC* (million m ³) | SA (km ²) | Owner | DWA code | Wall height (m) | Wall length (m) |
|--------------|-------|----------------------|--------------------------------|-----------------------|------------|----------|-----------------|-----------------|
| Vaal Barrage | Vaal | C22K | 55.4 | 13.5 | Rand Water | C2R008 | 10 | 329 |

* Live full supply capacity (ORASECOM)



Vaal Barrage (source: www.eco-h2o.co.za)



VAAL BARRAGE

| Year of completion | Demands/abstractions (million m ³ /a) | | | 1:50 yield (million m ³ /a) | Maximum spillway capacity (m ³ /s) |
|--------------------|--|------------|---------|--|---|
| | Domestic | Irrigation | Other | | |
| 1922 | Unknown | Unknown | Unknown | Unknown | Unknown |

AREA-CAPACITY RELATIONSHIP

| Elevation (m) | Storage (million m ³) | Surface area (km ²) |
|---------------|-----------------------------------|---------------------------------|
| 1 422.5 | 77.5 | 18.2 |
| 1 421.1 | 55.4 | 13.5 |
| 1 420.5 | 47.9 | 12.1 |
| 1 418.5 | 28.1 | 8.1 |
| 1 416.5 | 14.5 | 5.7 |
| 1 415.5 | 9.4 | 4.7 |
| 1 414.5 | 5.1 | 3.9 |
| 1 413.5 | 2.0 | 2.6 |
| 1 413.5 | 1.9 | 2.5 |
| 1 410.5 | 0.0 | 0.0 |



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Canoeists paddle along the Klip River, a tributary of the Vaal River, near Meyerton, south of Johannesburg. The Vaal River basin extends across the economic and industrial heartland of South Africa.

